

WHAT IS CLAIMED IS:

1. A microscope focusing apparatus comprising: a light illuminator; an objective lens; an observation tube; a holder which holds the light illuminator, the
5 objective lens and the observation tube; a focusing main body including a focusing movable portion which linearly and vertically moves; and an attaching portion, formed in said focusing movable portion, which fixes said holder,

10 wherein said holder comprises a first holder including a first support, the first support disposed on an observation optical axis, which supports said light illuminator, and a second holder including a second support, the second support disposed outside
15 said observation optical axis, which supports said light illuminator, and one of the first and second holders can be selectively attached to said attaching portion.

2. The microscope focusing apparatus according to
20 claim 1, wherein said first support supports said light illuminator with a round dovetail.

3. The microscope focusing apparatus according to
claim 2, further comprising a revolver which holds a plurality of said objective lenses in a changeable
25 manner,

wherein said first holder has the dovetail to which said revolver is to be attached, said dovetail

allocated on said observation optical axis.

4. The microscope focusing apparatus according to claim 1, wherein said second support supports said focusing main body with four bolts.

5 5. The microscope focusing apparatus according to claim 4, wherein a revolver which holds a plurality of said objective lenses in a changeable manner is attached to said light illuminator.

6. The microscope focusing apparatus according to claim 1, wherein said holder and said focusing movable portion have respective attaching surfaces, and respective wall surfaces perpendicular to said respective attaching surfaces are allowed to abut on each other, so that the holder and the focusing movable portion are positioned and assembled.

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7. The microscope focusing apparatus according to claim 1, further comprising an elastic member between said holder and said focusing main body,

said elastic member being selectively attachable/detachable in accordance with a load applied to said holder.

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8. The microscope focusing apparatus according to claim 7, further comprising a weight balance portion comprising a fixed portion, a vertically movable portion, and an elastic member which biases the vertically movable portion in an upward direction, said fixed portion being attachably/detachably fixed to said

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focusing main body,

wherein said holder further comprises an abutment portion which abuts on said vertically movable portion of said weight balance portion to receive an action of a bias force in said upward direction, and

the bias force of said elastic member can be selected in accordance with the type of said microscope.

9. The microscope focusing apparatus according to claim 8, wherein said weight balance portion further comprises a stopper which defines a movement range of said vertically movable portion with respect to said fixed portion.

10. The microscope focusing apparatus according to claim 1, wherein said focusing main body is separated into a guide portion and a focusing handle main body, and said guide portion can be selected.

11. The microscope focusing apparatus according to claim 10, wherein said guide portion has said focusing movable portion and a frame of said focusing movable portion, and

said focusing handle main body has a focusing handle and a frame of said focusing handle.

12. The microscope focusing apparatus according to claim 10, wherein a middle gear portion is attachably/detachably disposed between said guide portion and said focusing handle main body.

13. A microscope focusing apparatus comprising: a

light illuminator; an objective lens; an observation
tube; a holder which holds the light illuminator, the
objective lens and the observation tube; a focusing
main body including a focusing movable portion which
5 linearly and vertically moves; and an attaching portion
formed in said focusing movable portion,

wherein said holder is attachably/detachably
attached and fixed to said attaching portion, and can
be changed in accordance with the type of said light
10 illuminator.

14. A microscope comprising the microscope
focusing apparatus according to claim 1.

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